

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 April 2004 (22.04.2004)

PCT

(10) International Publication Number
WO 2004/033837 A1

(51) International Patent Classification⁷: **E06B 3/98**

(21) International Application Number:
PCT/GR2003/000044

(22) International Filing Date: 9 October 2003 (09.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20020100440 9 October 2002 (09.10.2002) GR

CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant and

(72) Inventor: I.EONTARIDIS, Athanasios [GR/GR];
Vosporou 61, GR-171 24 Nea Smimi, Attikis (GR).

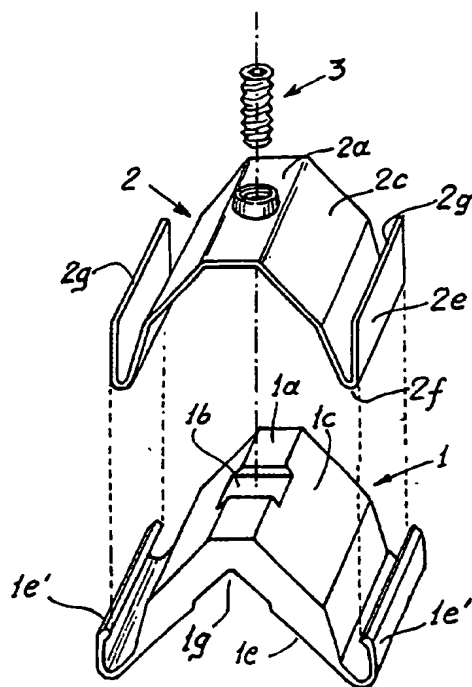
Published:

— with international search report

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: JOINT FOR THE ANGULAR CONNECTIONS OF DOOR / WINDOW PROFILE FRAMES AND THE LIKE



(57) Abstract: The angular joint of the invention comprises a slide base portion (1) and a sheet metal mobile portion (2) superimposed thereupon, the sheet metal portion (2) including upwardly extending legs (2e) with indenting edges (2g), a bolt (3) being employed in the tightening process of the joint, wherein after the joint has been inserted into the hollow profile members being brought together for connection, the bolt (3) acts so as to exert an upwardly raising force onto the sheet metal mobile portion (2), whilst maintaining base portion (1) at a fixed position, and subsequently leading the sharp indenting edges (2g) of the sheet metal portion (1) to producing an indentation effect into the walls of the corresponding chambers (13a, 13b) of the hollow profiles being angularly connected with the joint, as the joint is being tightened, thereby resulting in a robust, self aligned connection of the hollow profile members.